

EUROPEAN PATENT OFFICE

Patent Abstracts of Japan

PUBLICATION NUMBER : 62203596
PUBLICATION DATE : 08-09-87

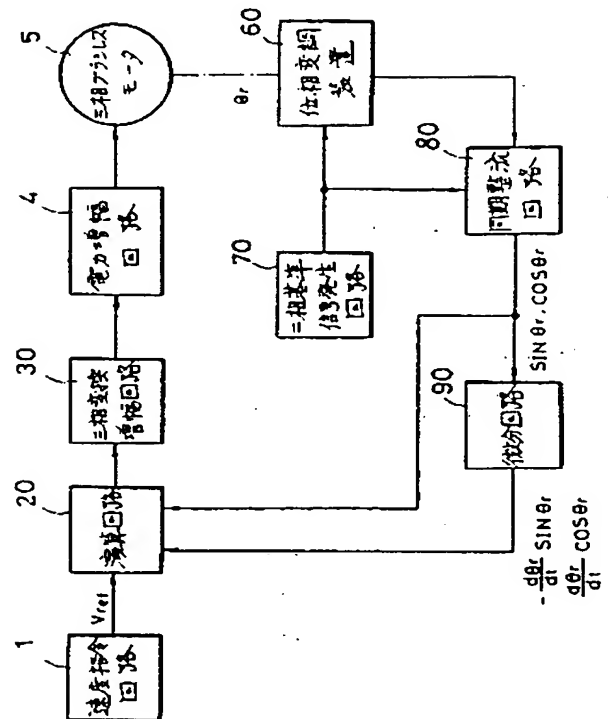
APPLICATION DATE : 28-02-86
APPLICATION NUMBER : 61043133

APPLICANT : MITSUBISHI HEAVY IND LTD;

INVENTOR : NAKAI MASAYOSHI;

INT.CL. : H02P 7/63 H02P 6/00

TITLE : SPEED CONTROLLER FOR 3-PHASE AC MOTOR



ABSTRACT : PURPOSE: To obtain angular speed information of high quality by providing a signal generator for generating a 2-phase reference signal, and a phase modulator for generating a 2-phase modulation signal which includes the rotary angle information of 3-phase AC motor by the 2-phase reference signal.

CONSTITUTION: A phase modulator 60 detects a displacing angle θ_r from a reference position of a rotor, inputs a 2-phase reference signal having a phase angle ωt generated from a 2-phase reference signal generator 70, and outputs a phase modulation sinusoidal wave $\sin(\omega t - \theta_r)$, $\cos(\omega t - \theta_r)$. A synchronous rectifier 80 synchronously rectifies the phase modulation sinusoidal wave by a reference signal and outputs a demodulated 2-phase sinusoidal wave $\sin \theta_r$, $\cos \theta_r$. A differentiator 90 differentiates the 2-phase sinusoidal wave, and outputs a rotary angle signal. A calculator 20 inputs the 2-phase sinusoidal waves and the rotary angle signal and outputs a 2-phase torque command signal.

COPYRIGHT: (C)1987,JPO&Japio

BEST AVAILABLE COPY